DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated bel w next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

		Oxathiolane"
the specification of which (check one)	is attached hereto	• • •
	X was filed on Febr	12 1002
•	as application Serial No	
	and was amended on:	(if applicable)
I hereby state that I have reviewed claims, as amended by any amendment refe	and understand the contents of the a	bove-identified specification, including th
I acknowledge the duty to disclose accordance with Title 37, Code of Federal F	information which is material to the Regulations, § 1.56(a).	examination of this application in
I hereby claim foreign priority ben- patent or inventor's certificate listed below certificate having a filing date before that o	and have also identified below any fo	de, § 119 of any foreign application(s) for reign application for patent or inventor's claimed.
Prior Foreign Application(s)		Prio <u>Clai</u>
(Number)	(Country)	(Day/Month/Year Filed)
(Number)	(Country)	(Day/Month/Year Filed)
(Number)	(Country)	(Day/Month/Year Filed)
I hereby claim the benefit under Titand. insofar as the subject matter of each of application in the manner provided by the findisclose material information as defined in date of the prior application and the nation continuation—in—part of	f the claims of the application is not lirst paragraph of Title 35, United Su Title 37, Code of Federal Regulations	ites Code, § 112, I acknowledge the duty (i. § 1.56(a) which occurred between the fil
U.S.S.N. 07/659.760	February 22, 1991	Pending
(Application Serial No.)	(Filing Date)	Status
continuation-in-part of		(patented, pending, abandon
U.S.S.N. 07/736,089	July 26, 1991	Pending
(Application Serial No.)	(Filing Date)	Status
continuation-in-part of	·	(patented, pending, abandon
U.S.S.N. 07/473,318	February 1, 1990	Pending
(Application Serial No.)	(Filing Date)	Status
FI BOLLOIT 110.	(TITING Date)	Status

3.S.N. 07/831,153

As named inventor, I hereby appoint the following attorney(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

John S. Pratt	29,476
James L. Ewing, IV	30,630
Patrea L. Pabst	31,284
Jamie L. Greene	32,467
Cheryl K. Zalesky	33,052
Dean W. Russell	33,452

Send Correspondence to:

Cheryl K. Zalesky, Esq.

Kilpatrick & Cody

100 Peachtree Street, Suite 3100

Atlanta, Georgia 30303

Direct telephone calls to:

Cheryl K. Zalesky, (404) 572-6439 or

John S. Pratt (404)572-6367

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or	first inventor Dennis C. Liotta	
Inventor's signature	Deums C. Lotte	Date 4/2/93
Residence	793 Post Road Way, Stone Mountain, Georgia 30088	
Citizenship	U.S.A.	
	Same as above	
	<u> </u>	
Full name of second	joint inventor (if any)Raymond F. Schinazi	
Inventor's signature		Date
Residence	524 Regency Walk Drive, Decatur, Georgia 30033	
Citizenship	J.S.A.	
Post Office Address	Same as above	

/ 07/831,153 ation

As named inventor, I hereby appoint the following attorney(s) to prosecute this application and transact all ousiness in the Patent and Trademark Office connected therewith.

John S. Pratt	29,476
James L. Ewing, IV	30,630
Patrea L. Pabst	31,284
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	first inventor Dennis C. Liotta	Date
Inventor's signature	Store Mountain Georgia 30088	
Residence	793 Post Road Way, Stone Mountain, Georgia 30088	
Citizenship	U.S.A.	
Post Office Address	Same as above	
Full name of second	point inventor (if any) Raymond F. Schinazi Raymond F. Schinazi Raymond F. Schinazi	Date 3. 24.92
Inventor's signature	Tana Prince Possitur Georgia 30033	
Residence	1524 Regency Wark Dilver Beedest,	
	U.S.A.	
Post Office Address	Same as above	

Full name of third J	int inventor (if any) WOO-Baeg Choi	
Inventor's signature	NovBang (f	Date 3/24/92
Residence	7 Pogal Court North Dranguick New Jorges 00000	
	Republic of Korea	
	Same as above	
		•
	*	
	oint inventor (if any)	
Inventor's signature		Date
Residence		
Citizenship		
Post Office Address _		
· · · · · · · · · · · · · · · · · · ·		
Full name of fifth join	at inventor (if any)	
Citizenship		
_		
Full name of sixth join	nt inventor (if any)	
inventor's signature _		Date
	·	
_		

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1392

DATE: 06/23/92 TO: CHERYL K. ZALESKY KILPATRICK & CODY 3100 EQUITABLE BLDG. 100 PEACHTREE ST. ATLANTA, GA 30303

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ASSIGNOR:

DOC DATE: 03/23/92

SCHINAZI, RAYMOND F.

RECORDATION DATE: 04/10/92 NUMBER OF PAGES 004 REEL/FRAME 6128/0085

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:

EMORY UNIVERSITY
A GA CORPORATION
1380 S. OXFORD ROAD, ATLANTA, GA 30322

SERIAL NUMBER 7-831153 FILING DATE 02/12/92 PATENT NUMBER ISSUE DATE 00/00/00

7/13/92





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

DOC DATE: 03/24/92

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

DATE: 06/23/92

TO:

CHERYL K. ZALESKY KILPATRICK & CODY 3100 EQUITABLE BLDG. 100 PEACHTREE ST. ATLANTA, GA 30303

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ASSIGNOR:

CHOI, WOO-BAEG

REEL/FRAME 6128/0093 RECORDATION DATE: 04/10/92 NUMBER OF PAGES 004

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:

EMORY UNIVERSITY A GA CORPORATION 1380 S. OXFORD ROAD, ATLANTA, GA 30322

02/12/92 7-831153 FILING DATE SERIAL NUMBER 00/00/00 ISSUE DATE PATENT NUMBER

DOCK2

BY:



DATE: 06/23/92

TO:

CHERYL K. ZALESKY
KILPATRICK & CODY
3100 EQUITABLE BLDG.
100 PEACHTREE ST.
ATLANTA, GA 30303

UNITED STATLS DEPARTMENT OF COMMERCE Patent and Trademark Office

DOC DATE: 04/03/92

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington 19 C 20231

KILPATRICK & CORP.

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ASSIGNOR:

LIOTTA, DENNIS C.

RECORDATION DATE: 04/10/92 NUMBER OF PAGES 004 REEL/FRAME 6128/0089

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:

EMORY UNIVERSITY A GA CORPORATION 1380 S. OXFORD ROAD, ATLANTA, GA 30322

SERIAL NUMBER 7-831153 FILING DATE 02/12/92 PATENT NUMBER ISSUE DATE 00/00/00

DOCKETED:

EV: LFL

DATE: 7/3/97

ASSIGNMENT

We, Dennis C. Liotta of 793 Post Road Way, Stone Mountain, Georgia 30088; Raymond F. Schinazi of 1524 Regency Walk Drive, Decatur, Georgia 30033; and Woo-Baeg Choi of 7 Regal Court, North Brunswick, New Jersey 08902, in consideration of One Dollar and other valuable consideration paid to us by Emory University, a Georgia corporation, having its principal place of business at 1380 S. Oxford Road, Atlanta, Georgia 30322, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Emory University, its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in "Antiviral Activity and Resolution of 2-Hydroxymethyl-5-(5-Fluorocytosin-1-YL)-1,3-Oxathiolane" described in the patent application filed February 12, 1992 in the United States Patent and Trademark Office, which is a continuation-in-part application of (1) U.S.S.N. 07/659,650 entitled "Method for the Compositions and Use of 2'-Deoxy-5-Fluoro-3'-Thiacytidine and Related Compounds", filed on February 22, 1991, by Dennis C. Liotta, Raymond F. Schinazi, and Woo-Baeg Choi, which is a continuation-in-part application of U.S.S.N. 07/473,318, entitled "Method and Compositions for the Synthesis of BCH-189 and Related Compounds", filed on February 1, 1990, by Dennis C. Liotta and Woo-Baeg Choi and, (2) a continuation-in-part of U.S.S.N. 07/736,089 entitled "Method of Resolution and Antiviral Activity of 1,3-Oxathiolane Nucleoside Enantiomers" filed on July 26, 1991, by Dennis C. Liotta, Raymond F. Schinazi, and Woo-Baeg Choi, which is a continuation-in-part of U.S.S.N. 07/659,760, referenced above and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

1992		S my	hand	and	seal	this		_ day	of _			
							Dennis	C. Li	otta			
Stat Coun	e of Geo	orgia	a) _) ss.									
	Then peowledged re me,	d the	e fore	goin	g ins	trume		his e	free	act	iotta and d	and leed,

Notary Public

U.S.S.N. 07/831,153 Filed: February 12, 1992 Assignment

WITNESS my hand and seal t	his 23 day of March,
	Raymond F. Schinazi
State of Georgia ss.	
	ne above named Raymond F. Schinazi instrument to be his free act and of Maul, 1992.
	Notary Public, DeKalb County, Georgi My Commission Expires Apr. 11, 199
	Notary Public
WITNESS my hand and seal t	his,
-	Woo-Baeg Choi
State of New Jersey) ss.	
Then personally appeared t acknowledged the foregoing instr before me, this day of	he above named Woo-Baeg Choi and ument to be his free act and deed,
·	Notary Public
	Notary Public

PATERS & TRAMEMARK OFFICE

APR 10 92

ASSIGNMENT

We, Dennis C. Liotta of 793 Post Road Way, Stone Mountain, Georgia 30088; Raymond F. Schinazi of 1524 Regency Walk Drive, Decatur, Georgia 30033; and Woo-Baeg Choi of 7 Regal Court, North Brunswick, New Jersey 08902, in consideration of One Dollar and other valuable consideration paid to us by Emory University, a Georgia corporation, having its principal place of business at 1380 S. Oxford Road, Atlanta, Georgia 30322, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Emory University, its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in "Antiviral Activity and Resolution of 2-Hydroxymethyl-5-(5-Fluorocytosin-1-YL)-1,3-Oxathiolane" described in the patent application filed February 12, 1992 in the United States Patent and Trademark Office, which is a continuation-in-part application of (1) U.S.S.N. 07/659,650 entitled "Method for the Synthesis, Compositions and Use of 2'-Deoxy-5-Fluoro-3'-Thiacytidine and Related Compounds", filed on February 22, 1991, by Dennis C. Liotta, Raymond F. Schinazi, and Woo-Baeg Choi, which is a continuation-in-part application of U.S.S.N. 07/473,318, entitled "Method and Compositions for the Synthesis of BCH-189 and Related Compounds", filed on February 1, 1990, by Dennis C. Liotta and Woo-Baeg Choi and, (2) a continuation-in-part of U.S.S.N. 07/736,089 entitled "Method of Resolution and Antiviral Activity of 1,3-Oxathiolane Nucleoside Enantiomers" filed on July 26, 1991, by Dennis C. Liotta, Raymond F. Schinazi, and Woo-Baeg Choi, which is a continuation-in-part of U.S.S.N. 07/659,760, referenced above and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors administrators, with said corporation and its successors and assigns but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this _____ day of ______

Dennis C. Liotta

State of Georgia) ss. County of <u>Dexalb</u>)

Then personally appeared the above named Dennis C. Liotta and acknowledged the foregoing instrument to be his free act and deed, before me, this 2 day of Apeil, 1992.

Sara J. Shaffer Notary Public

Notary Public, DeKalb County, Georgia My Commission Expires Feb. 7, 1994

APR 10 92

REL6128 FRANCO92

U.S.S.N. 07/831,153 Filed: February 12, 1992 Assignment

WITNESS my hand and seal this	day of,
Raym	nond F. Schinazi
State of Georgia) ss.	
Then personally appeared the above and acknowledged the foregoing instrumed deed, before me, this day of	ent to be his free act and
Not	ary Public
WITNESS my hand and seal this	day of,
	Baeg Choi
State of New Jersey) ss.	
Then personally appeared the above acknowledged the foregoing instrument to before me, this day of	o be his free act and deed,
Not	ary Public

ASSIGNMENT

We, Dennis C. Liotta of 793 Post Road Way, Stone Mountain, Georgia 30088; Raymond F. Schinazi of 1524 Regency Walk Drive, Decatur, Georgia 30033; and Woo-Baeg Choi of 7 Regal Court, North Brunswick, New Jersey 08902, in consideration of One Dollar and other valuable consideration paid to us by Emory University, a Georgia corporation, having its principal place of business at 1380 S. Oxford Road, Atlanta, Georgia 30322, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Emory University, its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention improvement in "Antiviral Activity and Resolution of 2-Hydroxymethy1-5-(5-Fluorocytosin-1-YL)-1,3-0xathiolane" described in the patent application filed February 12, 1992 in the United States Patent and Trademark Office, which is a continuation-in-part application of (1) U.S.S.N. 07/659,650 entitled "Method for the Use 2'-Deoxy-5-Fluoro-3'-Compositions and of Synthesis, Thiacytidine and Related Compounds", filed on February 22, 1991, by Dennis C. Liotta, Raymond F. Schinazi, and Woo-Baeg Choi, which is a continuation-in-part application of U.S.S.N. 07/473,318, entitled "Method and Compositions for the Synthesis of BCH-189 and Related Compounds", filed on February 1, 1990, by Dennis C. Liotta and Woo-Baeg Choi and, (2) a continuation-in-part of U.S.S.N. 07/736,089 entitled "Method of Resolution and Antiviral Activity of 1,3-Oxathiolane Nucleoside Enantiomers" filed on July 26, 1991, by Dennis C. Liotta, Raymond F. Schinazi, and Woo-Baeg Choi, which is a continuation-in-part of U.S.S.N. 07/659,760, referenced above and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part And we agree, for ourselves and our executors and thereon. administrators, with said corporation and its successors and assigns but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my 1	nand and seal	this day o	f,
· ·			
		Dennis C. Lio	cta
State of Georgia) County of)	ss.		
	foregoing inst	the above named Den trument to be his f	ree act and deed,

REEL 6 | 28 FRANCO 96

U.S.S.N. 07/831,153 Filed: February 12, 1992 Assignment

WITNESS my hand and seal this day of, 1992.
1332.
Raymond F. Schinazi
State of Georgia) ss. County of)
Then personally appeared the above named Raymond F. Schinazi and acknowledged the foregoing instrument to be his free act and deed, before me, this day of, 1992.
Notary Public
WITNESS my hand and seal this with day of March.
Horbay &
Woo-Baeg Choi
State of New Jersey) ss.
Then personally appeared the above named Woo-Baeg Choi and acknowledged the foregoing instrument to be his free act and deed, perfore me, this Ara day of Ara had been personally appeared.
Notary Public

MARILYN M. HARPER NOTARY PUBLIC OF NEW JERSEY My Commission Expires Aug. 1, 1994

RECORDED PATENT & THALEMARK OFFICE

APR 10 92